

JP 4343712

10/3,AB,LS/1 (Item 1 from file: 351)
DIALOG(R)File 351:Derwent WPI
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009321189

WPI Acc No: 1993-014653/ 199302

XRAM Acc No: C93-006904

Core sheath type conjugate fibre - comprises core of polyphenylene polysulphide and polyamide e.g. polycapraamide and sheath of polyphenylene polysulphide, for industrial fibre

Patent Assignee: TORAY IND INC (TORA)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 4343712	A	19921130	JP 91107657	A	19910513	199302 B

Priority Applications (No Type Date): JP 91107657 A 19910513

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 4343712	A		5	D01F-008/12	

Abstract (Basic): JP 4343712 A

The fibre comprises a polymer blended 5-30 wt.% of polyphenylene sulphide (PPS) to polyamide in the core component, and PPS in the sheath component. The polyamide comprises mainly polycapramide or polyhexamethylene adipamide. The core component is occupied 85-25 wt.% in whole the conjugate fibre. All the surface of the conjugate fibre is formed from PPS.

Pref. the polyamide comprises more than 70 wt.% of polycapramide or polyhexamethylene adipamide, and has more than 2.8, pref. more than 3.0 of sulphuric acid relative viscosity. PPS is pref. substantially linear polymer having 10-600 of melt flow rate. The conjugate fibre has pref. more than 5.5 g/d, more pref. more than 6 g/d of strength.

USE/ADVANTAGE - Useful for industrial fibre, esp. bag filter scrim ground fabric, motor knot cord, motor binder tape and reinforcing fibre for rubber. Since PPS fully cover the outer surface of the fibre, excellent heat resistance and chemical resistance, which is characteristic of PPS, is displayed. Since the component comprises mainly polyamide, the core component is subject almost tension applied to the fibre, thus high strength, high elongation and excellent physical property is displayed, and whole the fibre is softer compared with PPS alone fibre.

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